

F# Fundamentals

Jump Start

Introduction

- F# shares its core with the OCaml and the Haskell functional programming languages.

www.fsharp.net

Introduction

The screenshot shows the Microsoft F# Developer Center website. The browser's address bar displays the URL `msdn.microsoft.com/he-il/fsharp/default(en-us).aspx`. The page features a navigation menu with links for Community, Support, Downloads, Learn, Library, and Home. The main content area is divided into several sections:

- F# Projects from CodePlex:** This section lists several projects, including:
 - Social PowerFlow:** Experiments with PowerWF and the social network - integrating Windows Powershell and Windows Workflow Foundation with Facebook and Twitter. (Friday, Nov 26 - CodePlex)
 - F# MathProvider:** F# Math Provider wrappers native Blas+Lapack runtimes for F# users to perform linear algebra easily. (Monday, Nov 22 - CodePlex)
 - Linq to Abstract Syntax Tree:** This is a framework for source code transformation. It is paradigm shift in Abstract Syntax Tree processing. Instead of implementing Visitor pattern to process nodes one can use full TPL...power of LINQ to... (Wednesday, Nov 10 - CodePlex)
 - Funtastic:** A simple tool for working with F# interactive. (Wednesday, Oct 13 - CodePlex)
- F# Highlights:** This section features three numbered highlights:
 - F# November 2010 Release:** Announcing the latest release of the F# compiler, library and Visual Studio tools. Don Syme details the new release. (F# in VS2010)
 - S. Somasegar highlights a few of the exciting features that F# brings to VS2010,** including a Simple and Succint Syntax, simplified Parallel and Asynchronous Programming and Units of Measure. (Online Content for Learning F#)
 - A catalogue of great F# resources from around the web.** Brian includes videos, forums and many useful blog posts in his list.
- Getting Started:** This section provides resources for new users:
 - #About F:** Getting Started with #F
 - #Get F:** Get Visual Studio 2010, Get the F# Standalone and VS2008 CTP
 - #Learn F:** F# Learning Resources, F# Documentation, F# Microsoft Research Site
- Featured "How do I?" Videos:** A video titled "Managing F# projects in VS2010" is featured, which demonstrates using Visual Studio features for managing F# projects.

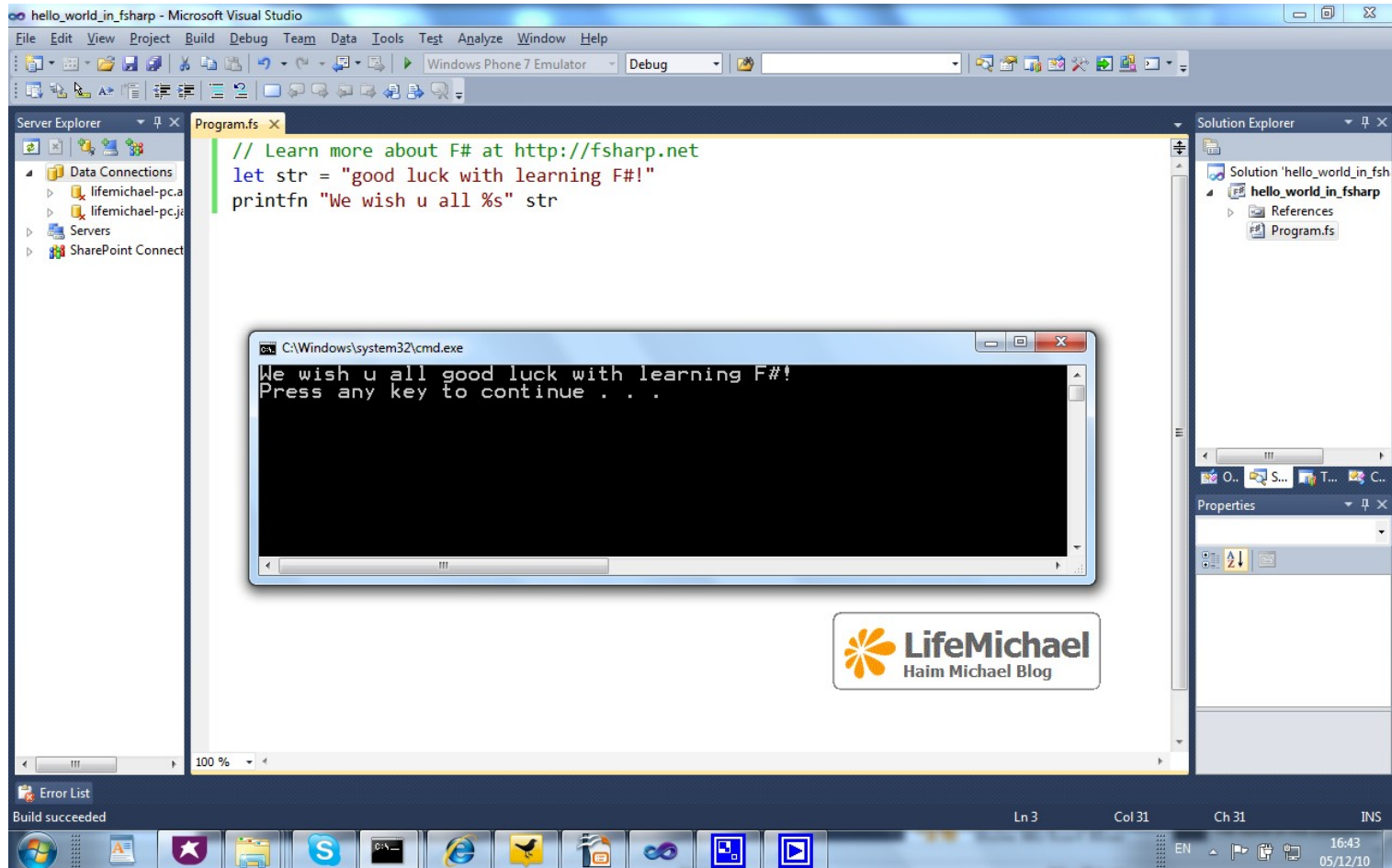
The Windows taskbar at the bottom shows the system tray with the date and time set to 16:29 on 05/12/10.

Hello World

```
let str = "good luck with learning F#!"  
printfn "We wish u all %s" str
```



Hello World



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The F# Interactive Tool

- We can easily practice our F# programming capabilities by using the F# interactive tool.
- You can download the F# interactive tool at <http://research.microsoft.com/en-us/um/cambridge/projects/fsharp/release.aspx>



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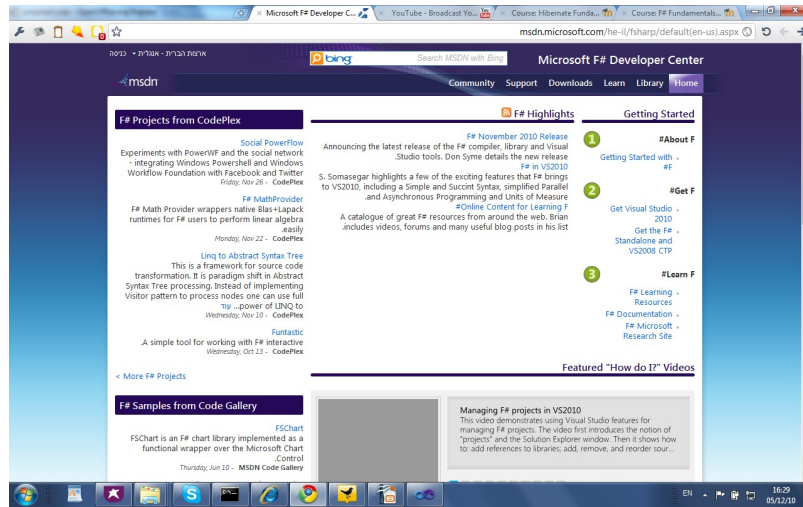
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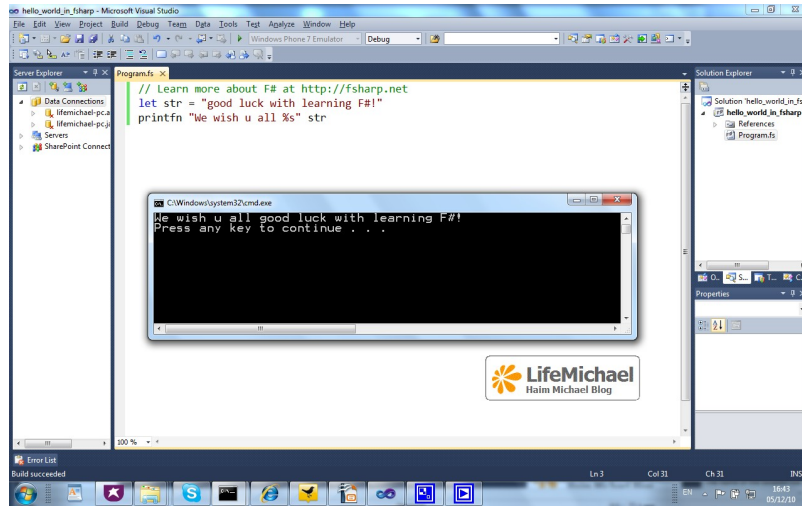
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